



Attorney Docket No. 1293.1307

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Kun-ho CHO, et al.

Application No.: 10/073,053

Group Art Unit: 2851

Filed: February 12, 2002

Examiner: Unassigned

For: FRONT PROJECTION TYPE SCREEN

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure provisions of 37 CFR § 1.56, there is hereby provided certain information which the Examiner may consider material to the examination of the subject U.S. patent application. It is requested that the Examiner make this information of record if it is deemed material to the examination of the subject application.

1. Enclosures accompanying this Information Disclosure Statement are:

- 1a. ☒ Form PTO-1449.
- 1b. ☒ Copies of IDS citations.
- 1c. ☒ A Korean Office Action from a counterpart foreign application or a PCT International Search Report.
- 1d. ☒ English language translation (abstracts only) attached to each non-English language publication.
- 1e. ☐ Explanations of Relevancy of References (ATTACHMENT 1(e), hereto) for providing a concise explanation of each non-English publication.
- 1f. ☐ List of Copending Applications (ATTACHMENT 1(f), hereto).
- 1g. ☐ List of Additional Submitted Documents (ATTACHMENT 1(g), hereto).

2. ☐ This Information Disclosure Statement is filed under 37 CFR §1.97(b):

*(Check either Item 2a or 2b or 2c or 2d)*

- 2a. ☐ Within three months of the filing date of a national application other than a Continued Prosecution Application under § 1.53(d);
- 2b. ☐ Within three months of the date of entry of the national stage as set forth in § 1.491 in an international application.
- 2c. ☐ Before the mailing of a first Office Action on the merits; or
- 2d. ☐ Before the mailing of a first Office Action after the filing of a Request for Continued Examination under § 1.114.

RECEIVED  
AUG - 1 2003  
TECHNOLOGY CENTER 2800

3. ☒ This Information Disclosure Statement is filed under 37 CFR § 1.97(c) after the period specified in paragraph 2 above but before the mailing date of any of a Final Office Action under § 1.113, a Notice of Allowance under § 1.311 or an action that otherwise closes prosecution in the application, AND

*(Check either Item 3a or 3b; Item 3b to be checked if any reference known for more than 3 months)*

- 3a. ☒ The § 1.97(e) Statement in Item 5 below is applicable; OR  
 3b. ☐ The \$180.00 fee set forth in 37 C.F.R. § 1.17(p) is:  
☐ enclosed.  
☐ to be charged to Deposit Account No. 19-3935.

4. ☐ This Information Disclosure Statement is filed under 37 CFR § 1.97(d) after the period specified in paragraph 3 above, but on or before payment of the Issue Fee, AND

- 4a. ☐ The § 1.97(e) Statement in Item 5 below is applicable; AND  
 4b. ☐ The \$180.00 fee set forth in 37 C.F.R. § 1.17(p) is:  
☐ enclosed.  
☐ to be charged to Deposit Account No. 19-3935.

5. ☒ Statement under § 1.97(e) *(applicable if Item 3a or Item 4a is checked)*

*(Check either Item 5a or 5b)*

- 5a. ☒ In accordance with 37 CFR § 1.97(e)(1), it is stated that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.  
 5b. ☐ In accordance with 37 CFR § 1.97(e)(2), it is stated that no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known by any individual designated in § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

6. ☐ This is a continuation/divisional/continuation-in-part application under 37 CFR § 1.53(b).

*(Check appropriate Items 6a and/or 6b)*

- 6a. ☐ Copies of the publications listed on the attached Form PTO-1449 which were previously cited in prior application Serial No. \_\_, filed on \_\_, and which is relied on for an earlier effective filing date for the subject application under 35 U.S.C. § 120, have been omitted pursuant to 37 CFR § 1.98(d).  
 6b. ☐ Copies of the publications listed on the attached Form PTO-1449 which were not previously cited in prior application Serial No. \_\_, filed on \_\_, and which is relied on for an earlier effective filing date for the subject application under 35 U.S.C. § 120, are provided herewith.

7. ☐ This is a continuation/divisional application under 37 CFR § 1.53(d) or a Request for Continued Examination under 37 CFR 1.114.  
(Check either Item 7a or 7b)
- 7a. ☐ The Issue Fee has not been paid.
- 7b. ☐ A Petition to Withdraw from issue under 37 CFR § 1.313(c) is filed concurrently herewith or has been granted. A continuation/divisional application under 37 CFR § 1.53(d) or a Request for Continued Examination under 37 CFR 1.114, after payment of the Issue Fee, is proper in accordance with 37 CFR § 1.53(d)(1)(ii) or 37 CFR 1.114(a), respectively.
8. ☐ This is a Supplemental Information Disclosure Statement.  
(Check either Item 8a or 8b)
- 8a. ☐ This Supplemental Information Disclosure Statement under 37 CFR § 1.97(f) supplements the Information Disclosure Statement filed on \_\_\_\_\_. A bona fide attempt was made to comply with 37 CFR § 1.98, but inadvertent omissions were made. These omissions have been corrected herein. Accordingly, additional time is requested so that this Supplemental IDS can be considered as if properly filed on \_\_\_\_\_.
- 8b. ☐ This Supplemental Information Disclosure Statement is timely filed within one (1) month of the Notice under 37 CFR § 1.97 and 1.98, mailed \_\_\_\_\_.
9. ☒ In accordance with 37 CFR § 1.98, a concise explanation of what is presently understood to be the relevance of each non-English language publication is:  
(Check appropriate Items 9a, 9b, 9c and/or 9d)
- 9a. ☒ satisfied because all non-English language publications were cited on the enclosed "English language version of the Office Action which indicates the degree of relevance found by the foreign office". (See MPEP § 609, Minimum Requirements for an Information Disclosure Statement, Part A(3): Concise Explanation of Relevance, 8th Ed.)
- 9b. ☐ set forth in the application.
- 9c. ☒ satisfied because an English language translation (abstracts only) is attached to each non-English language publication.
- 9d. ☐ enclosed as Attachment 1(e), hereto.
10. No admission is made that the information cited in this Statement is, or is considered to be, material to patentability nor a representation that a search has been made (other than search report(s) from a counterpart foreign application or a PCT International Search Report, if submitted herewith). 37 CFR §§ 1.97(g) and (h).

11. The Commissioner is authorized to credit any overpayment or charge any additional fee required under 37 CFR § 1.17 for this Information Disclosure Statement to Deposit Account No. 19-3935.

Respectfully submitted,

STAAS & HALSEY LLP

Dated: July 29, 2003  
1201 New York Ave., N.W., Suite 700  
Washington, D.C. 20005  
Telephone: (202) 434-1500  
Facsimile: (202) 434-1501

By: Alicia Choi  
Alicia M. Choi  
Registration No. 46,621



Sheet 1 of 1

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTORNEY DOCKET NO. 1293.1307	APPLICATION NO. 10/073,053
LIST OF REFERENCES CITED BY APPLICANT  (Use several sheets if necessary)		FIRST NAMED INVENTOR Kun-ho CHO, et al.	
		FILING DATE February 12, 2002	GROUP ART UNIT 2851

### U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NO.	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						

### FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO	
	AG	5-150368	06/18/93	Japan			abstract	
	AH	11-38509	02/12/99	Japan			abstract	
	AI							
	AJ							
	AK							
	AL							

### OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

							TRANSLATION YES NO	
	AM							

EXAMINER	DATE CONSIDERED
<p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>	

## NOTICE TO SUBMIT RESPONSE

### Patent Applicant

Name: Samsung Electronics Co., Ltd. (Applicant Code: 119981042713)  
Address: 416 Maetan-3-dong, Paldal-gu, Suwon-City,  
Kyunggi-do, Korea

### Attorney

Name: Young-pil Lee et al.  
Address: 2F Cheonghwa Bldg., 1571-18 Seocho-dong, Seocho-ku, Seoul,  
Korea

Application No.: 10-2001-0011732

Title of the Invention: Front projection type screen

According to Article 63 of the Korean Patent Law, the applicant is notified that the present application has been rejected for the reasons given below. Any Argument or Amendment which the applicant may wish to submit, must be submitted by July 15, 2003. An indefinite number of one-month extensions in the period for submitting a response may be obtained upon request, however no official confirmation of the acceptance of a request for an extension will be issued.

### Reasons

The invention as claimed in the claims could have been easily invented by one of ordinary skill in the art prior to the filing of the application, and thus this application is rejected according to Article 29(2) of the Korean Patent Law.

### Below

Claims 1 through 6 relate to a front projection type screen including a transparent base, a diffusion member, and a retroreflection prism array. In particular, Claim 3 additionally specifies a light absorbing member placed at the back of the retroreflection, Claim 4 adds an air layer provided between the retroreflection prism array and the light absorbing member to the front projection type screen, and Claims 5 and 6 specify that the diffusion member diffuses light in vertical and horizontal directions, where the diffusion of light in the vertical direction is different from the diffusion of light in the horizontal

direction. However, Japanese Patent Laid-open Publication No. hei 11-38509 (published on February 12, 1999) discloses a reflection-type screen including a base, an optical diffusion layer, a prism, and an optical absorption sheet and further specifies that the base and the optical absorption sheet are coupled to each other with a space therebetween or bonded to each other. In addition, Japanese Patent Laid-open Publication No. hei 150368 (published on June 18, 1993) discloses a reflection-type screen provided with three different reflection surfaces such that the diffusion of light in a vertical direction is weakened and the diffusion of light in a horizontal direction is strengthened. Therefore, the present invention defined in Claims 1, 3, and 4 is considered to have been possibly invented by one skilled in the art based upon the cited inventions.

Enclosure: Japanese Patent Laid-open Publication No. hei 11-38509  
Japanese Patent Laid-open Publication No. hei 5-150368

15 May 2003

Jong-woo Ko/Examiner  
Precision Machinery Part  
Examination Division 2  
Korean Industrial Property Office

출력 일자: 2003/5/16

발송번호 : 9-5-2003-017851854

수신 : 서울 서초구 서초3동 1571-18 청화빌딩 2

발송일자 : 2003.05.15

층(리&목특허법률사무소)

제출기일 : 2003.07.15

이영필 귀하

137-874

## 특허청 의견제출통지서



출원인 명칭 삼성전자주식회사 (출원인코드: 119981042713)

주소 경기도 수원시 팔달구 매탄3동 416번지

대리인 성명 이영필 외 1 명

주소 서울 서초구 서초3동 1571-18 청화빌딩 2층(리&목특허법률사무소)

출원번호 10-2001-0011732 0V16105

발명의 명칭 전면 투사형 스크린

이 출원에 대한 심사결과 아래와 같은 거절이유가 있어 특허법 제63조의 규정에 의하여 이를 통지 하오니 의견이 있거나 보정이 필요할 경우에는 상기 제출기일까지 의견서[특허법시행규칙 별지 제 25호의2서식] 또는/및 보정서[특허법시행규칙 별지 제5호서식]를 제출하여 주시기 바랍니다. (상기 제출기일에 대하여 매회 1월 단위로 연장을 신청할 수 있으며, 이 신청에 대하여 별도의 기간연장 승인통지는 하지 않습니다.)

### [이유]

이 출원의 특허청구범위 제1항 및 제3항 내지 제6항에 기재된 발명은 그 출원전에 이 발명이 속하는 기술분야에서 통상의 지식을 가진 자가 아래에 지적한 것에 의하여 용이하게 발명할 수 있는 것이므로 특허법 제29조제2항의 규정에 의하여 특허를 받을 수 없습니다.

### 아 래

1. 특허청구범위 제1항 및 제3항 내지 제6항은 투명 베이스, 확산부재 및 재귀 반사 프리즘 어레이를 구비한 전면 투사형 스크린에 관한 것으로서, 제3항은 상기 재귀 반사 프리즘 어레이의 뒤쪽에 광 흡수부재를 부가한 것이고, 제4항은 상기 프리즘 어레이와 광 흡수부재 사이에 공기층이 있는 것이며, 제5항 및 제6항은 상기 확산부재를 상하방향과 좌우방향의 광의 확산이 다르게 일어나도록 형성한 것입니다. 이와 관련하여 선행기술(1)인 일본공개특허공보 특개평11-38509호(1999.2.12)에는 기재(基材), 광 확산층, 프리즘 및 광 흡수시트로 구성되고, 동 프리즘 및 흡수시트는 공간 또는 점착에 의해 결합되는 반사형 스크린의 구성이 공개되어 있으며, 선행기술(2)인 일본공개특허공보 특개평5-150368호(1993.6.18)에는 스크린 뒷면에 3개의 반사면을 가지는 커브면을 형성하여 광의 수직방향의 확산을 작게, 수평방향의 확산을 크게 한 반사형 스크린의 구성이 공개되어 있습니다. 따라서, 본원의 청구범위 제1항, 제3항 및 제4항에 기재된 발명은 선행기술(1)의 구성으로부터, 제5항 및 제6항에 기재된 발명은 상기 선행기술(1) 및 (2)의 구성을 결합하여 당업자가 용이하게 실시할 수 있는 정도의 것으로 판단됩니다.

### [첨 부]

첨부 1 일본공개특허공보 특개평11-38509호(1999.2.12) 1부

첨부2 일본공개특허공보 특개평5-150368호(1993.6.18) 1부 끝.

0V16105



출력 일자: 2003/5/16

2003.05.15

특허청

심사2국

정밀기계심사담당관실

심사관 고종우



<<안내>>

문의사항이 있으시면 ☎ 042-481-5496 로 문의하시기 바랍니다.

특허청 직원 모두는 깨끗한 특허행정의 구현을 위하여 최선을 다하고 있습니다. 만일 업무처리과정에서 직원의 부조리행위가 있으면 신고하여 주시기 바랍니다.

▶ 홈페이지([www.kipo.go.kr](http://www.kipo.go.kr))내 부조리신고센터